B V d

SANTA YNEZ RIVER FLOOD CONTROL PROJECT

SAN MIGUELITO SUBWATERSHED
CALIFORNIA

San Miguelito subwatershed, a tributary to the Santa Ynez River, is located immediately southwest of Lompoc, Santa Barbara County, California. The drainage area is approximately 13 square miles, and consists of steep pasture and brush land, a large industrial mining area, the City of Lompoc, and cultivated land. Flood waters emerging from San Miguelito Canyon had no defined channel and flooded several hundred acres of excellent farm land, used primarily for the production of flower seed, sugar beets and vegetables.

Structural control measures completed in 1952 provide for interception at the mouth of San Miguelito Canyon and conveying the flood waters in a controlled channel to the Santa Ynez River.

Major control measures consist of a 10 acre-foot debris storage basin at the canyon mouth with concrete inlet and outlet structures, two and three-quarter miles of earth channel designed to carry 1,575 c.f.s., and six reinforced concrete road culverts.

The County of Santa Barbara provided all rights-of-way. A local maintenance district is responsible for operation and maintenance of the improvements. The Lompoc Soil Conservation District acts as coordinator for all construction and maintenance activities.

Benefits include approximately twenty-five acres of slough bottom reclaimed with soil from the channel excavation, elimination of state highway flooding, and hundreds of acres of cropland, producing two and three crops per year, are no longer subject to annual inundation from flood waters.

Channel outlet into Santa Ynez River (foreground). Rail log revetment protects outlet.

Completed channel upstream from outlet.

BEFORE

Channel location between outlet and debris basin.

AFTER

Completed channel designed to carry 1,575 c.f.s. with section having bottom stabilized with asphalt treated rock.

Same completed section following high runoff stage.

Ten acre-foot debris basin. Inlet in left center of photograph.

BEFORE

Location of debris basin at head of project.

AFTER

Completed debris basin at mouth of Miguelito Canyon.

B Id

SANTA YNEZ FLOOD PREVENTION PROJECT
Purisima-Cebada Subwatersheds
CALIFORNIA

The Cebada and Purisima subwatersheds are tributaries to the Santa Ynez River, and are located about four miles northeast of the City of Lompoc in Santa Barbara County, California. Drainage consists of three canyons which have a common outlet to the river. The drainage area is approximately twenty square miles.

The upper watersheds are characterized by gently to steeply rolling hills, dissected by narrow alluvial valley fills. The lower part consists of a flood plain or delta across which the canyons drained to the river with no well defined channel. The hill lands are primarily brush and grass covered. The valley bottoms are farmed to beans or grain and the delta area is used for irrigated vegetable production. Rainfall varies from twelve to seventeen inches and is frequently of high intensities with resultant high runoff.

The control plan now principally completed consists of establishment of vegetative cover on all steeply sloping lands by reseeding and improved range management, stabilization of alluvial bottoms with terraces, stabilization of gullies with concrete dams, and provision of flood water conveyance across the flood plain in concrete lined channels.

Rights-of-way for construction were negotiated by the Lompoc Soil Conservation District. All were granted at no charge by the land owners. A maintenance district has been organized to provide maintenance for installed improvements.

Completed channel for conveying flood waters from Purisima subwatershed. This channel protects portions of nine farms from flooding.

Completed channel route to Santa Ynez River for conveyance of flood waters from Purisima and Cebada subwatersheds.

Completed channel carrying combined flood flows from Cebada and Purisima subwatersheds.

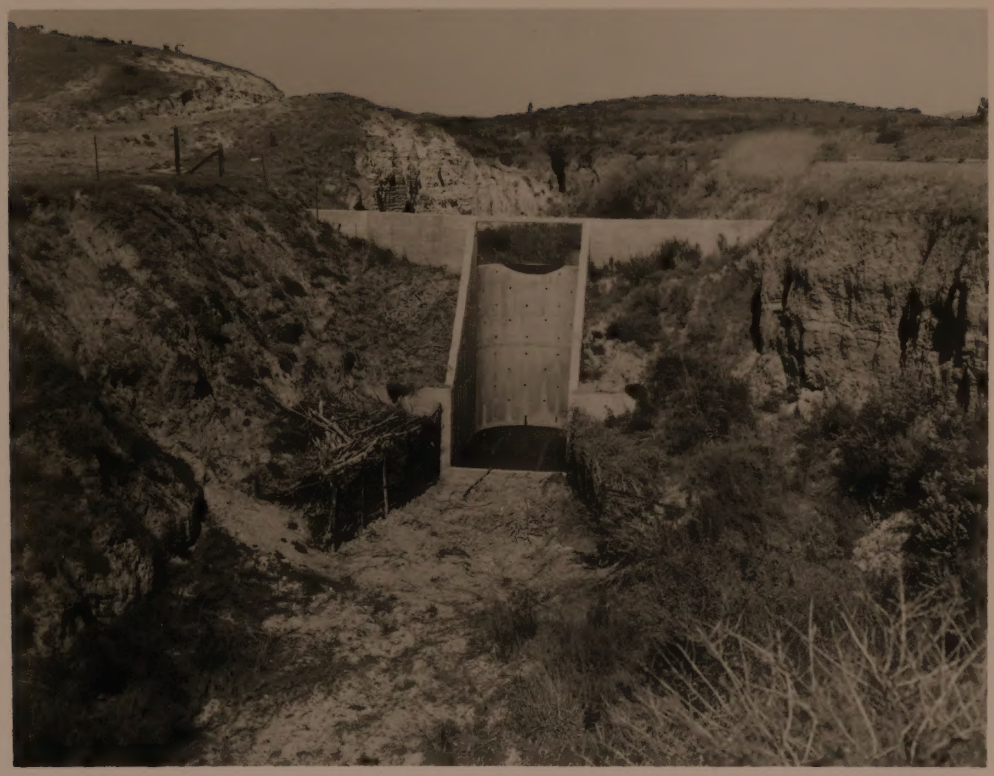
Side weir designed to handle overflow from heavy storms. Adjacent area has protective grass cover.

Location of a section of Cebada-Purisima restricted channel prior to construction of new channel.

Same location following construction of concrete channel.

Site of gully control dam in Cebada Canyon.

Completed Cebada Canyon gully control dam - upstream face.



One of a series of gully control dams in Cebada Canyon. Downstream face, with stilling basin and rail-wire downstream revetments.

Model of Purisima-Cebada channel weir structure developed and tested by the University of California to handle short duration heavy flows.

Plate BI-I

SANTA RITA WORK PLAN AREA
SANTA YNEZ FLOOD CONTROL PROJECT

LOMPOC SOIL CONSERVATION DISTRICT

CALIFORNIA

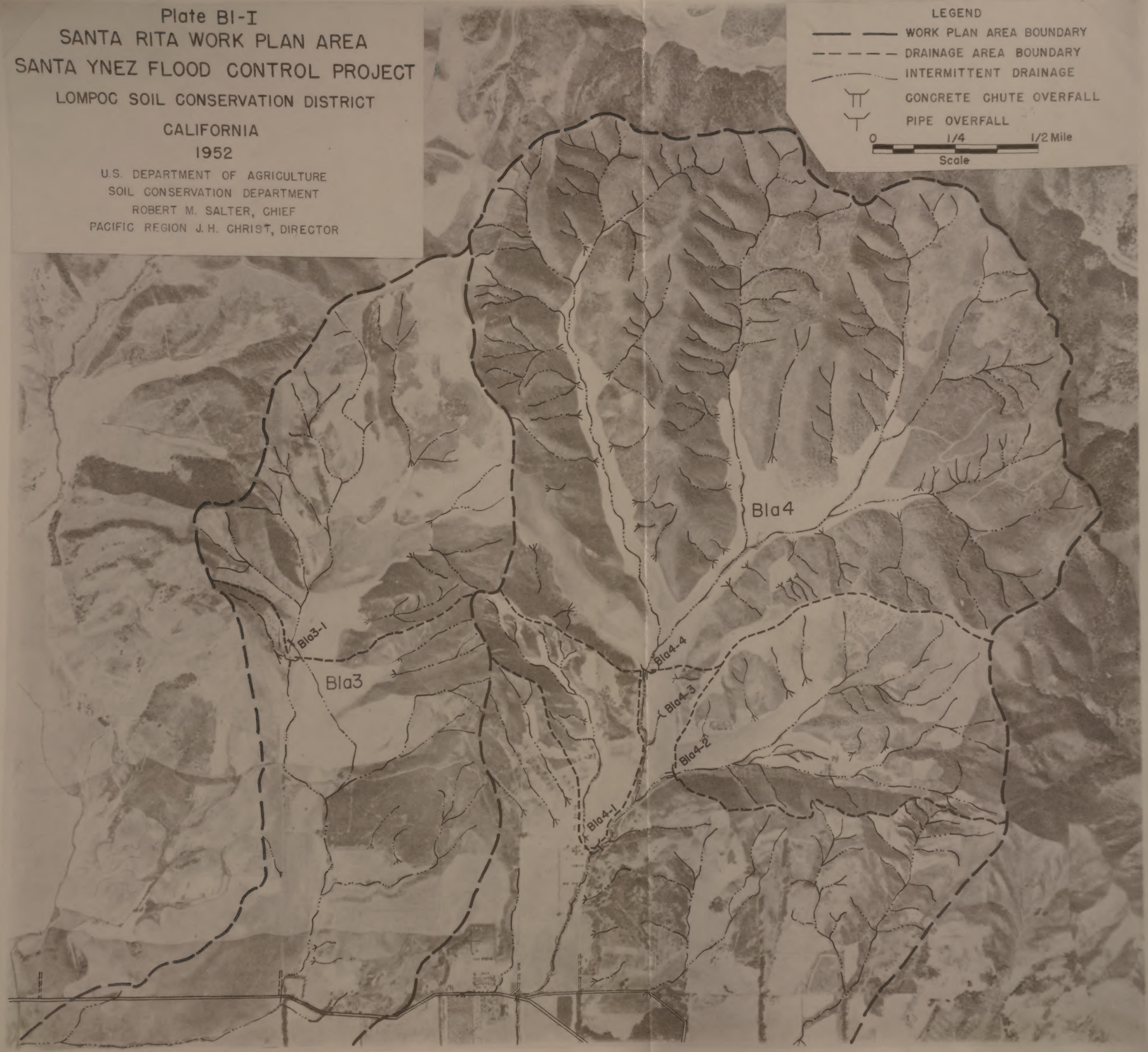
1952

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION DEPARTMENT
ROBERT M. SALTER, CHIEF
PACIFIC REGION J. H. CHRIST, DIRECTOR

LEGEND

- WORK PLAN AREA BOUNDARY
- DRAINAGE AREA BOUNDARY
- INTERMITTENT DRAINAGE
- CONCRETE CHUTE OVERFALL
- PIPE OVERFALL

0 1/4 1/2 Mile
Scale



LEGEND

WORK PLAN AREA BOUNDARY
INTERMITTENT DRAINAGE
CHANNEL IMPROVEMENT
PROPOSED CONCRETE CHUTE OVERFALL
PROPOSED CONCRETE DROP STRUCTURE
PROPOSED CONCRETE PIPE OVERFALL
EXISTING CONCRETE CHUTE OVERFALL
EXISTING CONCRETE DROP STRUCTURE
EXISTING CONCRETE PIPE OVERFALL
PILOT PLANTINGS
PROPOSED DIKE
PROPOSED REVETMENT
PROPOSED DIVERSION DITCH

2200 0 2200 4400
Scale

920-43

920-2B-17

920-2B-16

B1a2-1.3

B1a2

B1a3-1

B1a3

B1a4-4

B1a4-3

B1a4-2

B1a4-1

B1a4-1.2

B1a4-1.1

B1a4

C.C.C. STRUCTURES

STATE HWY. #150

B1a2-1.2

B1a2-1.1

EXISTING C.C.C. STRUCTURES

B1a1-1.8

B1a1-1.7

B1a1

B1a1-1.6

B1a1-1.5

B1a1-1.4

B1a1-1.3

Deposition Areas

B1a1-1.2

B1a1-1.1

Irrigated Land

Plate B1a-I

HOAG AND SANTA RITA WORK PLAN AREA
SANTA YNEZ FLOOD CONTROL PROJECT
LOMPOC SOIL CONSERVATION DISTRICT
CALIFORNIA

1953

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION DEPARTMENT
ROBERT M. SALTER, CHIEF
PACIFIC REGION J.H. CHRIST, DIRECTOR

TABLE NO. 1
SCHEDULE OF FLOOD CONTROL PROGRAM ESTABLISHMENT AND ESTIMATED COSTS
SANTA YNEZ RIVER WATERSHED

SUB-WATERSHED	TYPE OF WORK	TOTAL COST	SUB-WATERSHED TOTALS	1947	1948	1949	1950	1951	1952	1953	1954	1955
A7a - Purisima												
A7a-12	Range Treatment	$ 380.	$	$ 380.	$	$	$					
A7a 3,5,9,10,11,13,14,15	Farmland Treatment	1,103.		1,103.								
A7a 2-1, 2-2, 2-3	Channel Cleaning	9,800.			9,800.							
A7a 2-1, 2-2, 2-3	Reinforce Existing Structures	2,990.		2,990.								
A7a 2-1.1, 2-1.2	Construct 2 Gully Structures	2,545.		2,545.								
A7a 2	Diversions and Outlets	3,537.		3,537.								
A7a	Technical Supervision	1,500.		1,500.								
A7a	Contingencies	2,858.		1,388.	1,470.							
	Construction Engineering	1,764.	26,477.	637.	1,127.							
A7b - Cebada												
A7b 13,33	Rangeland Treatment	620.		620.								
A7b 2,7,8,11,15,18,20,22,24, 25,27,28,29,31,36	Farmland Treatment	4,855.		4,855.								
A7b 3-1.1, 3-1.2	Dams in Main Channel	68,550.				68,550.						
A7b 6-1.1, A7b 14-1.1	Head Chutes in Main Channel	14,375.			5,350.	9,025.						
A7b 3-1	Temporary P & W Checks	3,000.				3,000.						
A7b 3-1	Vegetative Plantings	1,400.				1,400.						
A7b 14-1	Reinforce Existing Structures	390.		390.								
A7b-3, 6, 14	Diversions and Outlets	4,409.			4,409.							
A7b	Technical Supervision	1,100.		700.	400.							
A7b	Contingencies	14,129.		59.	1,773.	12,297.						
A7b	Construction Engineering	10,081.	122,909.	45.	615.	9,421.						
A7c East Cebada												
A7c 4,5,7,8,12,13	Farmland Treatment	1,471.		1,471.								
A7c 6	Diversions and Outlets	645.		645.								
A7c 1-2	Vegetative Plantings	900.		900.								
A7c	Technical Supervision	400.		400.								
A7c 1-1.1, 1-3.1, 1-5.5	Channel Excav. & Revetment	2,033.					2,033.					
A7c 1-3, 1-4, 1-5	Channel Cleaning & Bank Planting	1,000.					1,000.					
A7c 1-2.1, 2.2, 2.3	R. C. Pipe Diversion	18,892.					18,892.					
A7c1-3.2, 3.3, 3.4	R. C. Inlet and Channel	55,095.					55,095.					
A7c1-4.1, 4.2	R. C. Inlet and Channel	17,285.					17,285.					
A7c1-5.1, 5.2, 5.3, 5.4	R. C. Channel and Outlet	95,047.					95,047.					
A7c	Contingencies	28,653.		250.			28,403.					
A7c	Construction Engineering	21,890.	243,311.	115.			21,775.					

TABLE NO. 1 (continued)
SCHEDULE OF FLOOD CONTROL PROGRAM ESTABLISHMENT AND ESTIMATED COSTS
SANTA YNEZ RIVER WATERSHED

SUB-WATERSHED	TYPE OF WORK	TOTAL COST	SUB-WATERSHED TOTALS	1947	1948	1949	1950	1951	1952	1953	1954	1955
A3a - San Miguelito												
A3a 1-1	Excavated Channel	74,358.						74,358.				
A3a 1-1.1, 1.2, 1.3, 1.4, 1.5, 1.6	R. C. Box Culverts	99,297.						99,297.				
A3a 1-2	Debris Basin	8,136.						8,136.				
A3a 1-2.1, 2.2	Inlet and Outlet Structures	16,950.						16,950.				
A3a 1-3	Enlarge Channel	555.						555.				
A3a	Contingencies	29,894.						29,894.				
A3a	Construction Engineering	22,919.						22,919.				
			252,109.									
A3b - San Pasqual & Rodeo *												
	Channel Improvement	141,800.							141,800.			
	Contingencies	21,200.							21,200.			
			163,000.									
B1a - Santa Rita *												
	Channel Stabilization	341,475.								200,000.	141,475.	
	Rangeland Treatment	4,710.							2,350.	2,360.		
	Farmland Treatment	15,500.							5,500.	5,000.	5,000.	
	Contingencies	54,250.							1,175.	31,105.	21,970.	
			415,935.									
B1b - Santa Rosa *												
	Channel Stabilization	521,360.								221,360.	300,000.	
	Rangeland Treatment	4,308.							2,200.	2,108.		
	Farmland Treatment	12,450.							4,450.	4,000.	4,000.	
	Contingencies	80,700.							1,000.	34,100.	45,600.	
			618,818.									
B1c - Palos Blancos *												
	Farmland Treatment	3,565.								1,565.	2,000.	
	Rangeland Treatment	340.								340.		
			3,905.									
Total Work by Fiscal Years		$ 1,846,464.		$ 24,530.	$ 24,944.	$ 103,693.	$ 239,530.	$252,109.	$ 172,025.	$ 246,115.	$ 431,918.	$ 351,600.
Technical Service and Supervision	15%	278,562.		5,273.	3,741.	15,554.	35,929.	37,816.	25,804.	36,917.	64,788.	52,740.
Work Plan Preparation	1%	38,867.		10,652.	10,465.	7,250.	6,500.	2,000.	2,000.	--	--	--
Overhead	15	326,558.		5,045.	4,350.	19,045.	42,294.	43,789.	29,974.	42,455.	74,506.	65,100.
Total Flood Control Operations		$ 2,490,451.		$ 45,500.	$ 43,500.	$ 145,542.	$ 324,253.	$335,714.	$ 229,803.	$ 325,487.	$ 571,212.	$ 469,440.
Total Authorized Funds		188,000.										
Total Authorized Funds Remaining End of 1947		131,668.										
Deficiency of Authorization		$ 2,302,451.										

* Reconnaissance Estimate

Total 2,501,288

PLATE Ia

Field #1 East Cebada Work Plan Area "A7C1."

Santa Ynez River Flood Control Project
Lompoc Soil Conservation District

United States Department of Agriculture
Soil Conservation Service
California

1947

SCALE IN MILES

1/8 0 1/8 1/4 3/8

500 0 1000 2000

SCALE IN FEET

LEGEND

- Field Boundary
- Dam (Reinforced Concrete)
- Ditch (unlined)
- Ditch (concrete lined)
- Ditch Junction
- Pipeline
- Outlet Baffle (concrete)
- Revetment
- Inlet Transition and Wasteway
- Box Culvert
- Channel Reach Designation
- Structure Designation

See Plan Profile Sheet #2

L-54' R.C.P.

FARM ROAD

STATE HIGHWAY NO. 150 To LOMPOC

#ATC1-23 for details, see sheet 11.

#ATC1-1.1

#ATC1-3.1

50' R/W on ℄

CEBADA CHANNEL

CEBADA CHANNEL

HOG PENS

HOG & CATTLE PENS

℄ 10+00

℄ 12+00

BUELLTON — CAMP COOKE HIGHWAY To CAMP COOKE ——→

SCALE: 1"=80'

SCALE: 1"=80'

℄ TOP OF BANK

GROUND LINE

Pipe Diversion Outlet #ATC1-2.3

Single P & W Revetment #ATC1-1.1

P & W Revetment #ATC1-3.1

BOTTOM GRADE — EXISTING CHANNEL

-1+50 -1+00 -0+50 0+00 0+50 1+00 1+50 2+00 2+50 3+00 3+50 4+00 4+50 5+00 5+50 6+00 6+50 7+00 7+50 8+00 8+50 9+00 9+50 10+00 10+50 11+00 11+50 12+00

PROFILE PLATE A 4 X 20

REGION 7

LOWER CEBADA CHANNEL

Area A-7c Santa Ynez River Watershed

U. S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

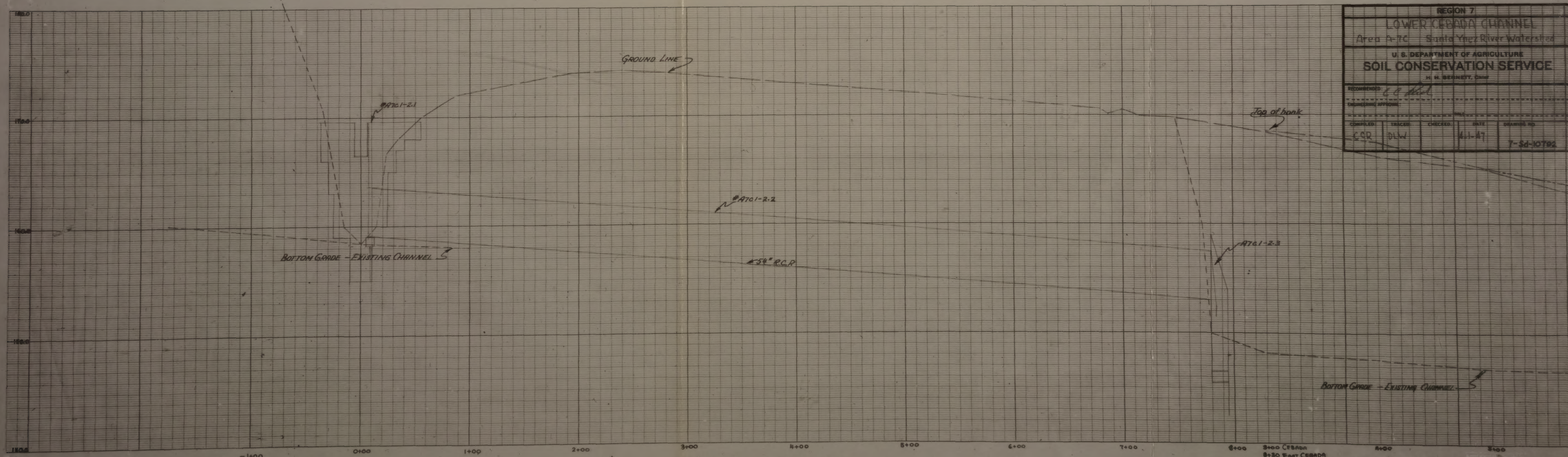
H. H. BENNETT, Chief

RECOMMENDED

ENGINEERING APPROVAL

REGIONAL DIRECTOR

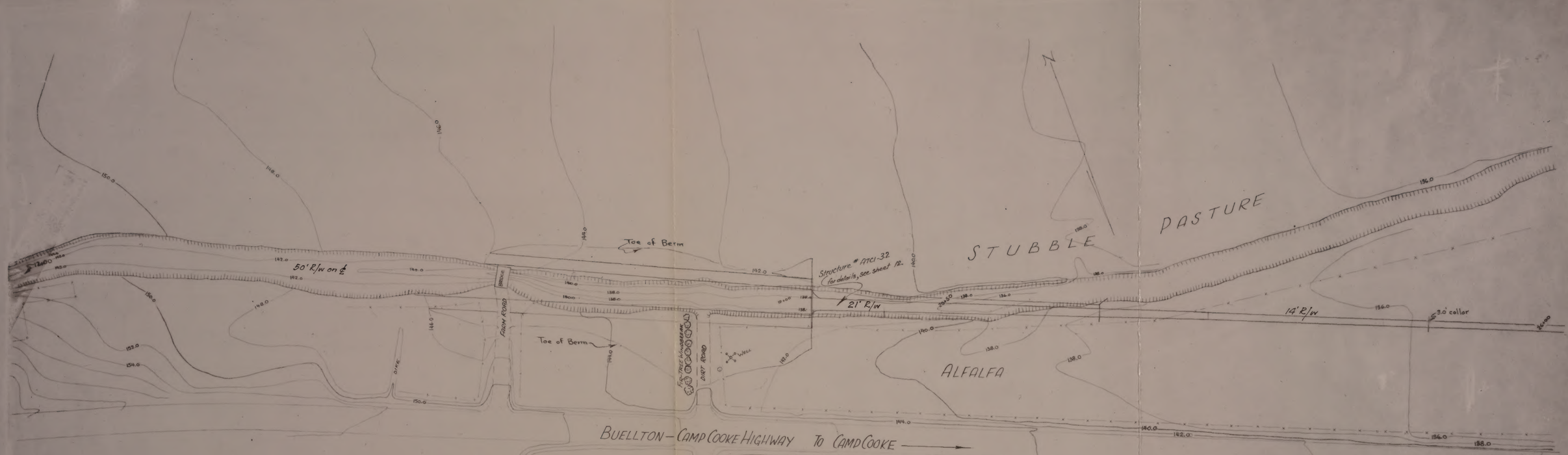
COMPILED	TRACED	CHECKED	DATE	DRAWING NO.
CGR	DLW		4-1-47	7-Sd-10794

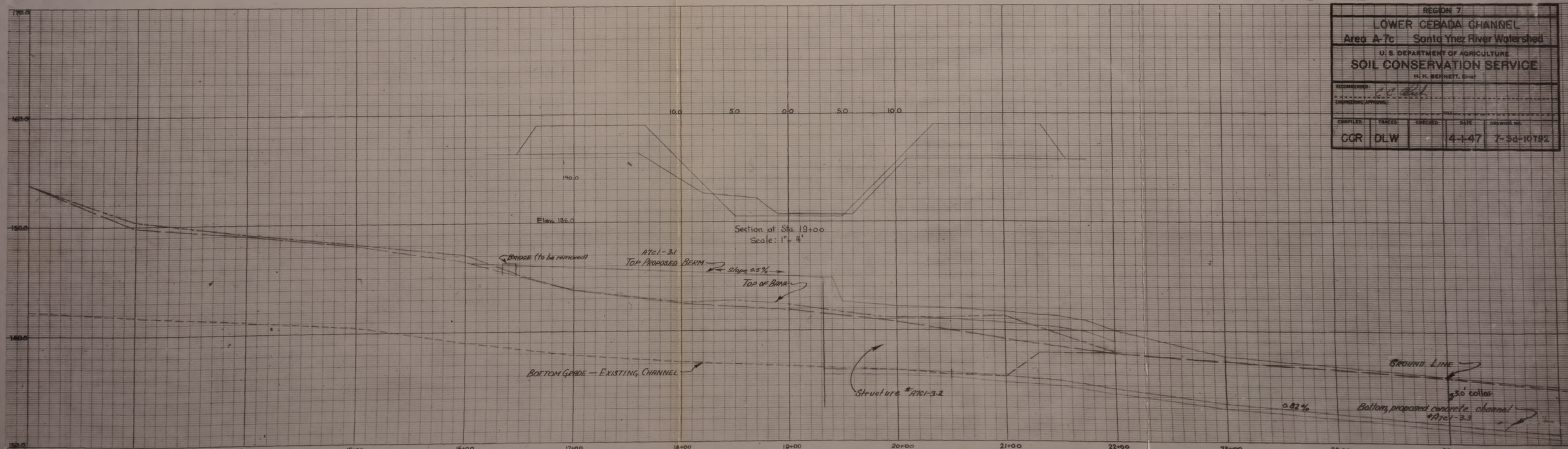


REGION 7
LOWER CEBADA CHANNEL
Area A-7C Santa Ynez River Watershed
U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, Chief

RECOMMENDED:				
ENGINEERING APPROVAL:				
COMPILED: CGR	TRACED: DLW	CHECKED:	DATE: 4-1-47	DRAWING NO. T-Sd-10792

PROFILE PLATE A 4 X 20





REGION 7
LOWER CEBADA CHANNEL
Area A-7c Santa Ynez River Watershed
U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, Chief

RECOMMENDED:			DATE
ENGINEERING APPROVAL:			DATE
COMPILED	TRACED	CHECKED	DATE	DRAWING NO.
CGR	DLW		4-1-47	7-Sa-10792

PROFILE PLATE 4 X 20
TABLE 'C' MAY

CEBADA CHANNEL

N

D = 20°

B.C. Sta. 35+51.40

E.C. Sta. 36+29.62

14' R/W

22°30'

3.0' Collar

3.0' collar

0.82%

Flow line proposed concrete channel

3.0' collar

3.0' collar

F. Ground Line

4.5'

5" 7.0' 5"

5"

Section Sta. 30+00

REGION 7				
LOWER CEBADA CHANNEL Area A-7c Santa Ynez River Watershed				
U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE H. H. BENNETT, Chief				
RECOMMENDED APPROVED				
COMPILED	TRACED	CHECKED	DATE	DRAWING NO.
CGR	DLW		4-1-47	784-10192

SCALE: 1" = 80'

Sheet 4 of 15 Sheets

N

Fruit Trees
Dwelling
Dwelling
Shed
Dirt Drive
Edge of Cultivation
Structure #A1C1-3.4
for details, see sheet 15
Drive
Top of Dike
14' R/W
Ditch
Ditch
122.0
120.0
118.0
116.0
114.0
112.0
128.0

SCALE: 1"=80'

REGION 7
LOWER CEBADA CHANNEL
Area A-7c Santa Ynez River Watershed
U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
M. M. BENNETT, DIRECTOR

RECOMMENDED:				
ENGINEERING APPROVAL:				
COMPILED	TRACED	CHECKED	DATE	DRAWING NO.
CGR	DLW		4-1-47	1-Sd-10752

Culvert (Structure #A1C1-3.4)
0.89%
0.71%
Ground line
Top of lining
Bottom proposed channel
30' collar
30' collar
30' collar
Section sta 50+00
Ground Line
5'
9.5'
5'
8'
0
8'
117
115
112
130.0
120.0
110.0
100.0
39+00
40+00
41+00
42+00
43+00
44+00
45+00
46+00
47+00
48+00
49+00
50+00
51+00
52+00
53+00

PROFILE PLATE A 4 X 20

Sheet 5 of 15 Sheets

N

14' R/W

16' R/W

Structure # A1C1-51 for details, see sheet 14.

Sta. 56+95 ± Cebada Alignment
Sta. 10+66 ± Patisima Alignment

(See Sheet 7)

R=200'

Thicket

Thicket Line

112.0 110.0 108.0

Ground line
Top of lining
Junction - Patisima Pavement
Structure # A1C1-51
Bottom proposed channel
3.0' collar
0.71%
0.50%
10+1

Section - Sta. 62+00

9.5'
5'
5'
5
0
5

REGION 7
LOWER CEBADA CHANNEL
Area # 14 Santa Cruz River, Valencia
U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
N. N. BENNETT, Dist.
RECOMMENDED:
APPROVED:
DRAWN: COR | TRACED: DLW | CHECKED: | DATE: 4-1-57 | DRAWING NO. 7-Sd-10192

53+00 54+00 55+00 56+00 57+00 58+00 59+00 60+00 61+00 62+00 63+00 64+00 65+00 66+00 66+50

SCALE: 1"=80'

PROFILE PLATE A 4 X 20

Sheet 6 of 15 Sheets

N

124.0

From Road

120.0

Structure # Arci-4.1 for details, see sheet 13.

Purisima Channel

21' R/W

12° Apx.

120.0

118.0

118.0

118.0

114.0

14' R/W

112.0

112.0

R=200'

Sta. 36+85.50 Channel Alignment
Sta. 10+66.50 Pipeline Alignment

Structure # Arci-5.1 for details, see sheet 14.

SCALE: 1"=80'

Ground Line

115

6.5'

5'

5'

110

5

0

5

Section Sta. 5+00

REGION 7

LOWER CAÑADA CHANNEL

Area 6-K Santa Ynez River Watershed

U. S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

M. M. BENNETT, Dirct

RECOMMENDED

ENGINEERING APPROVAL

DRAWN	TRACED	CHECKED	DATE	DRAWING NO.
CCR	DLW		4-1-57	T-SB-10792

130.0

120.0

110.0

100.0

Top of Bank

Invert of Culvert

Existing Channel Bottom

Structure # Arci-4.1

Top of lining

Ground line

Junction - Cañada Realignment
(See Sheet 6)

Slope .0072

Bottom Proposed Channel

30' collar

0+00 1+00 2+00 3+00 4+00 5+00 6+00 7+00 8+00 9+00 10+00 11+00

PROFILE PLATE A 4 X 20
Hor. 1" = 100'

PROFILE PLATE A 4 X 20
Hor. 1" = 100'

Sheet 7 of 15 Sheets

N

COUNTY ROAD

16' R/W

19' R/W

SCALE: 1" = 80

REGION 7

LOWER CUBADA CANYON

Area A7E — Santa Ynez River Watershed

U. S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

H. H. BENNETT, Chief

RECOMMENDED:				
APPROVED:				
COMPILED	TRACED	CHECKED	DATE	DRAWING NO.
GCR	DLW		4-1-47	T-Sd-10'92

Ground line

Top of lining

Lining 6" thick, floor and sidewalls
Sta. 71+00 to Sta. 81+00

Bottom proposed channel

3.0' collar

3.0' collar

3.0' collar

3.0' collar

Ground Line

Max. Backfill Slope 1½:1

Section Sta. 75+00

6" 95' 6"

6"

110.0
108.0
106.0
100.0
96.0
90.0

66+50 67+00 71+00 72+00 73+00 74+00 75+00 76+00 77+00 78+00 79+00 80+00

PROFILE PLATE A 4 X 20

Sheet 8 of 15 Sheets

N

COUNTY ROAD

Structure # A1C1-5.3 for details, see sheet

16' R/W

COUNTY ROAD

Structure # A1C1-5.4
Structure # A1C1-5.5
for details, see sheet 15

Dirt Road

SANTA YNEZ RIVER

Edge of Flow Ø

SCALE: 1"=80'

Ground line
Top of lining
Bottom proposed channel
0.50%
0.25%
Structure # A1C1-5.3
Structure # A1C1-5.4
Structure # A1C1-5.5

REGION 7
Area No. LOWER CEBADA CHANNEL
Santa Ynez River Watershed
U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF
RECOMMENDED
SUPERVISOR'S APPROVAL
COMPILED | TRACED | CHECKED | DATE | DRAWING NO.
DATE | 7-84-10792

PROFILE PLATE A 4 X 20

N

COUNTY ROAD

Structure* ATC1-5.3 for details, see sheet

16' R/W

COUNTY ROAD

Structure* ATC1-5.4
Structure* ATC1-5.5
for details, see sheet 15

DIRT ROAD

SANTA YNEZ RIVER

EDGE OF FLOW

SCALE: 1"=80'

Ground line
Top of lining

Structure* ATC1-5.3

0.50%

Bottom proposed channel

Structure* ATC1-5.4

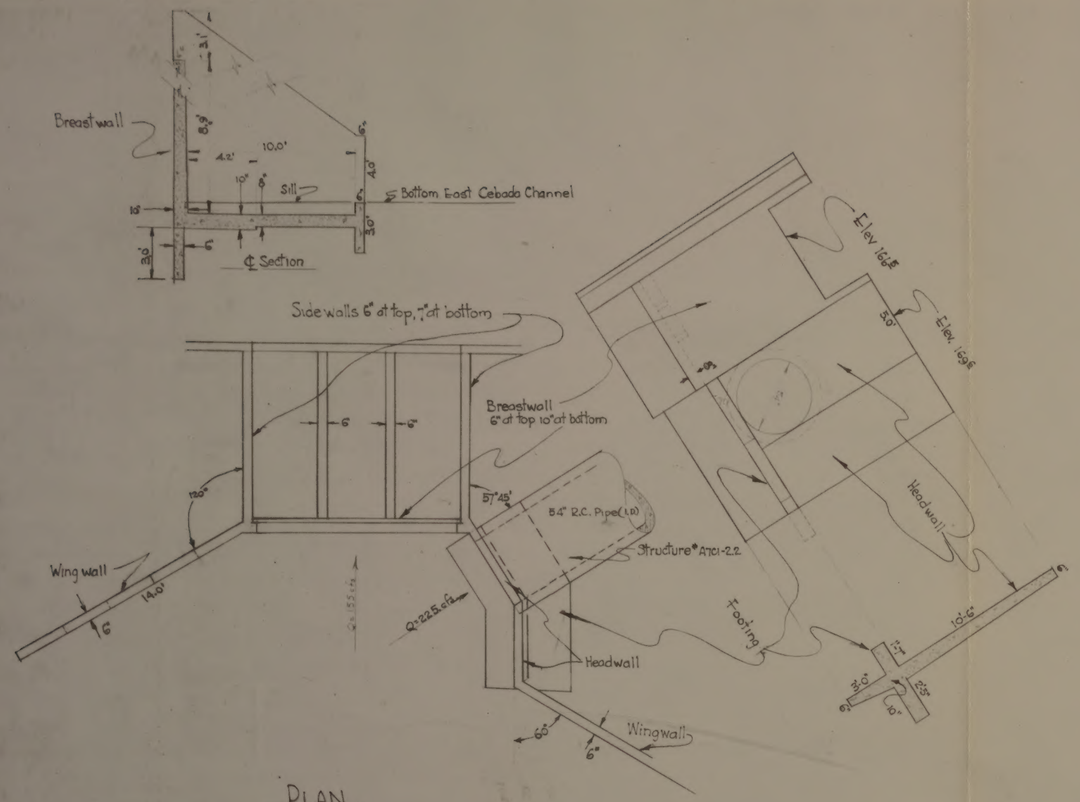
Structure* ATC1-5.5

0.25%

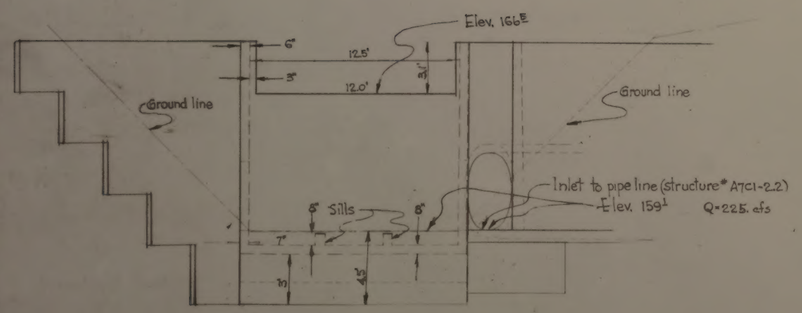
REGION 7
LOWER CEBADA CHANNEL
Area ATC Santa Ynez River Watershed
U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF

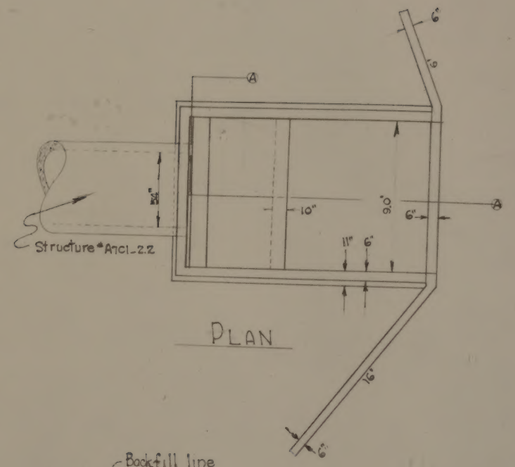
RECOMMENDED				
ENGINEERING APPROVAL			TYPE	
COMPILED:	TRACED:	CHECKED:	DATE:	DRAWING NO.
D.E.C.	D.L.O.		4-47	7-Sd-10793

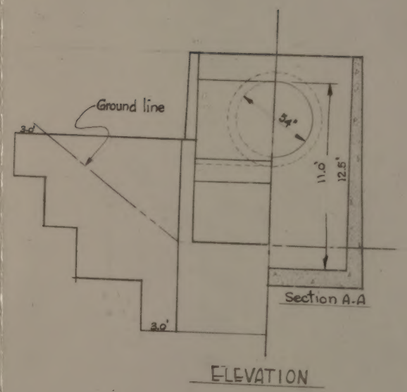
PROFILE PLATE A 4 X 20

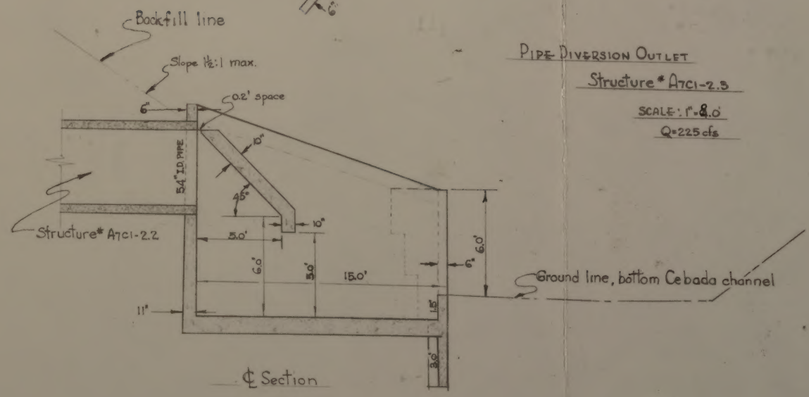


PIPE DIVERSION INLET
Structure # A7C1-2.1
SCALE: 1"=4.0'









PIPE DIVERSION OUTLET
Structure # A7C1-2.3
SCALE: 1"=8.0'
Q=225 cfs

REGION 7				
STRUCTURAL DETAILS East Cebada Diversion A7C1-2				
U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE H. H. BENNETT, Chief				
RECOMMENDED C. C. Rich				
ENGINEERING APPROVAL: REGIONAL ENGINEER				
COMPILED CCR	TRACED DLW	CHECKED	DATE 4-1-47	DRAWING NO. 7-Sd-10792

N

COUNTY ROAD

Structure* A1C1-5.3 for details, see sheet

16' R/W

COUNTY ROAD

Structure* A1C1-5.4
Structure* A1C1-5.5
for details, see sheet 15

Dirt Road

SANTA YNEZ RIVER

Edge of Flow Ln

SCALE: 1"=80'

Ground line
Top of lining
Bottom proposed channel
Structure* A1C1-5.3
Structure* A1C1-5.4
Structure* A1C1-5.5
0.50%
0.25%

REGION 7

LOWER CEBADA CHANNEL
Area 1nc Santa Ynez River Watershed

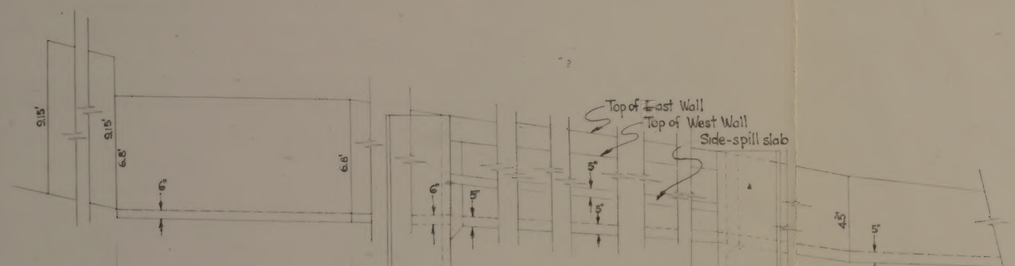
U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF

RECOMMENDED
SUBMITTED ADDITIONAL

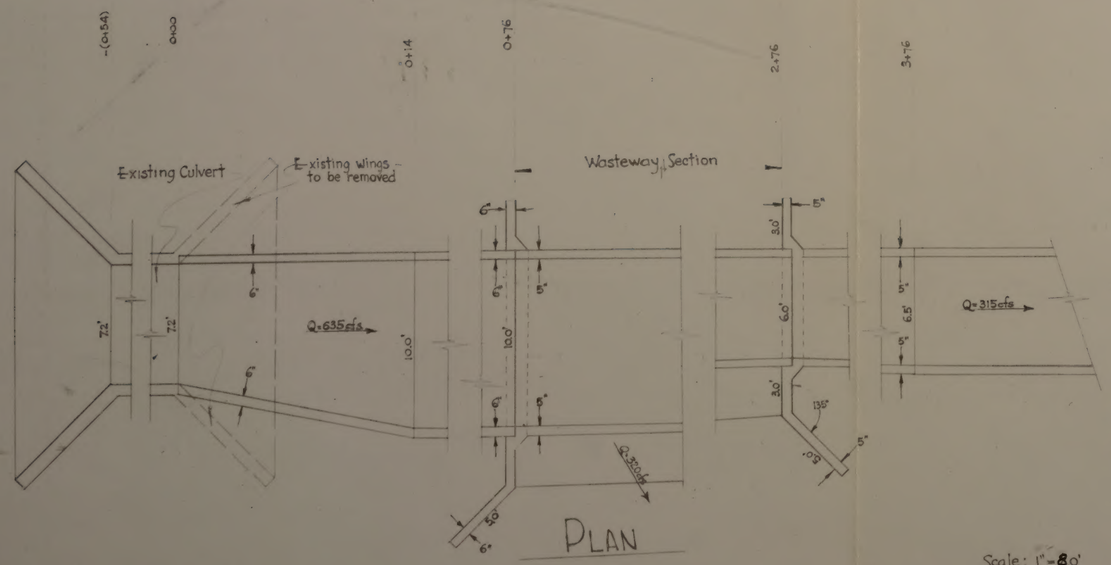
COMPILED	TRACED	CHECKED	DATE	DRAWING NO.
DCF	DLD		4-57	T-Sd-10792

PROFILE PLATE A 4'X 20'

Sheet 10 of 15 Sheets.

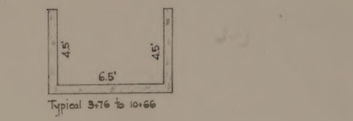


ELEVATION

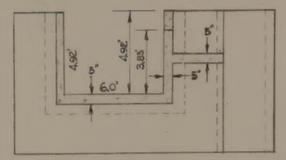


PLAN

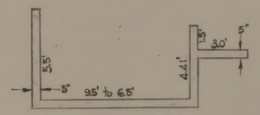
Scale: 1"=8.0'



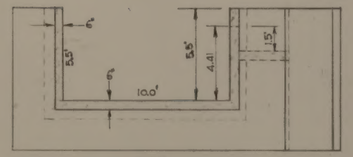
Typical 3+76 to 10+66



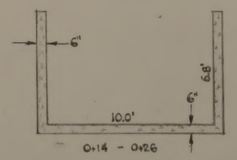
2+76



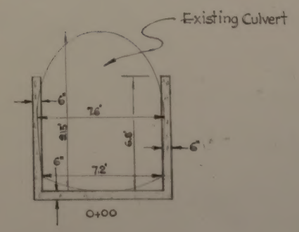
Typical @ 1+26, 1+76 2+26 2+51.
except for variable widths



0+76



0+14 - 0+26



0+00

Station	F/L Elev.	Width	E Wall Height	W Wall Height	Slope
-(0+54)	115.85	7.2	9.15	9.15	.020
0+00	114.77	7.2	9.15/6.8	9.15/6.8	.010
0+14	114.63	10.0	6.8	6.8	.000
0+26	114.63	10.0	6.8	6.8	.0011
0+76	114.57	10.0	5.5	5.5/4.41	.0038
1+26	114.38	9.0	5.5	4.41	.0053
1+76	114.11	8.0	5.5	4.41	.0076
2+26	113.73	7.0	5.5	4.41	.0101
2+51	113.48	6.5	5.5	4.41	.0102
2+76	113.23	6.0	4.92	3.83/4.92	.0116
3+76	112.07	6.5	4.5	4.5	.0072
10+66	107.1	6.5	4.5	4.5	

REGION 7

WASTEWAY DETAILS

Purisima Channel — Structure "A-C1-4.1

U. S. DEPARTMENT OF AGRICULTURE

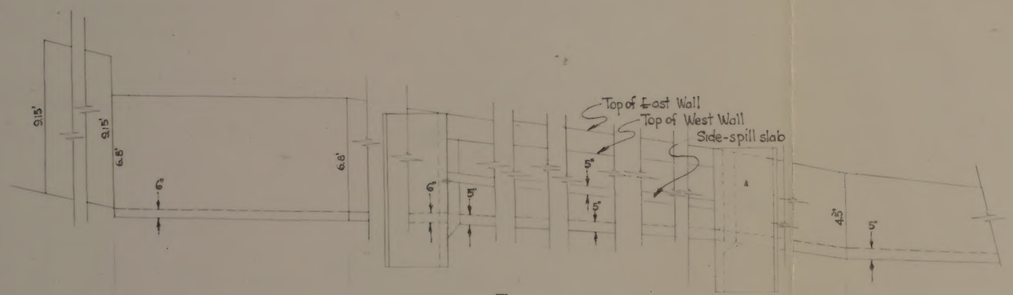
SOIL CONSERVATION SERVICE

H. H. BENNETT, Chief

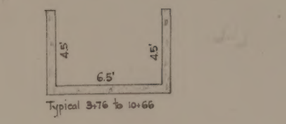
RECOMMENDED: O.C. Rost

ENGINEERING APPROVAL: ____ REGIONAL ENGINEER

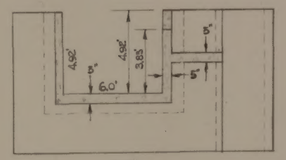
COMPILED	TRACED	CHECKED	DATE	DRAWING NO.
CCR	DLW		4-1-47	7-Sd-10792



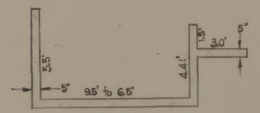
ELEVATION



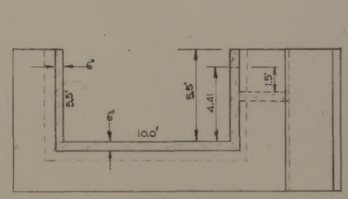
Typical 3+76 to 10+66



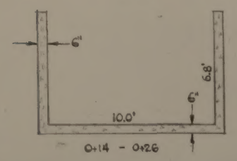
2+76



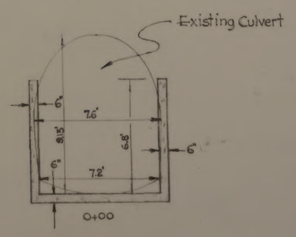
Typical @ 1+26, 1+76 2+26 2+51.
except for variable width



0+76

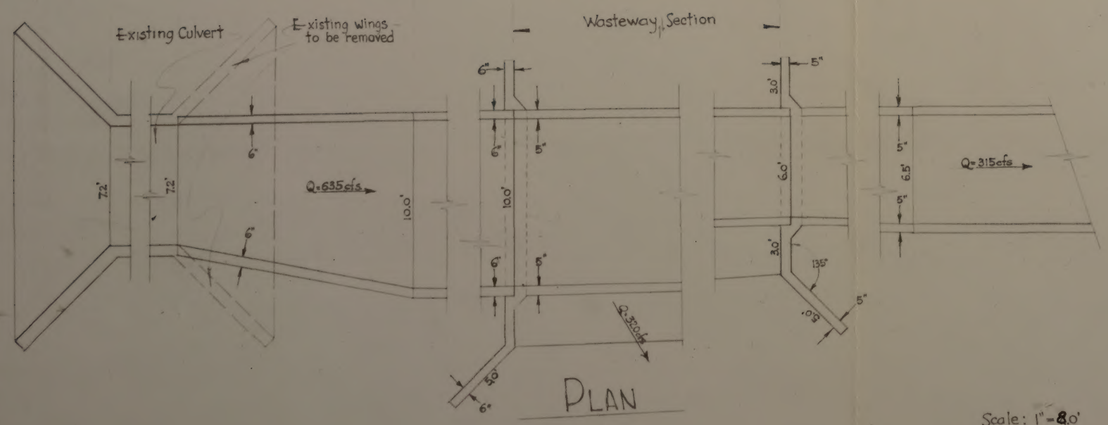


0+14 - 0+26



0+00

STATION	F/L Elev.	Width	E. WALL HEIGHT	W. WALL HEIGHT	SLOPE
-(0+54)	115.85	7.2	9.15	9.15	.020
0+00	114.77	7.2	9.15/6.8	9.15/6.8	.010
0+14	114.63	10.0	6.8	6.8	.000
0+26	114.63	10.0	6.8	6.8	.0011
0+76	114.57	10.0	5.5	5.5/4.41	.0038
1+26	114.38	9.0	5.5	4.41	.0053
1+76	114.11	8.0	5.5	4.41	.0076
2+26	113.73	7.0	5.5	4.41	.0101
2+51	113.48	6.5	5.5	4.41	.0102
2+76	113.23	6.0	4.92	3.85/4.92	.0116
3+76	112.07	6.5	4.5	4.5	.0072
10+66	107.1	6.5	4.5	4.5	



Scale: 1"=8.0'

REGION 7

WASTEWAY DETAILS

Purisima Channel — Structure "A-C1-4.1

U. S. DEPARTMENT OF AGRICULTURE

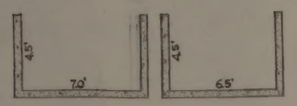
SOIL CONSERVATION SERVICE

H. H. BENNETT, Chief

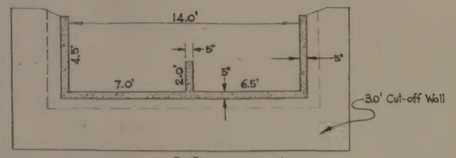
RECOMMENDED C.C. Dart

ENGINEERING APPROVAL ..... REGIONAL ENGINEER

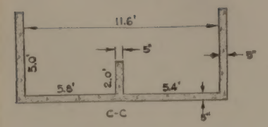
COMPILED:	TRACED	CHECKED:	DATE	DRAWING NO.
CCR	DLW		4-1-47	7-Sd-10792



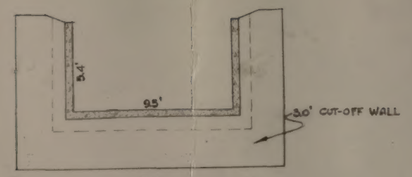
A-A



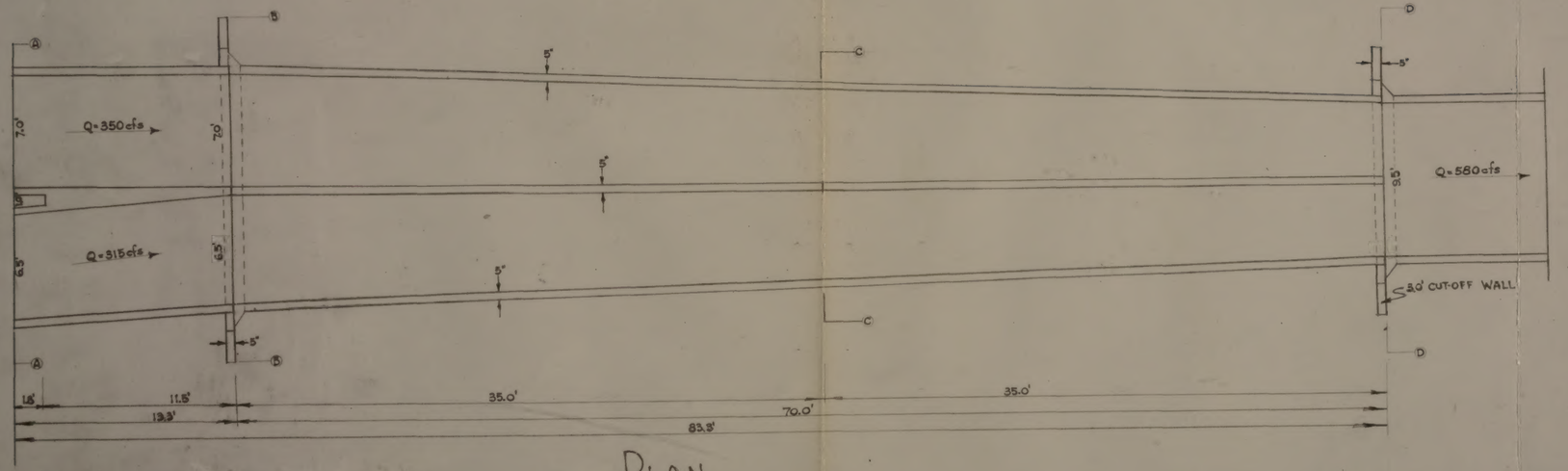
B-B
Station 56+95[5] Cebada
10+66[2] Purisima



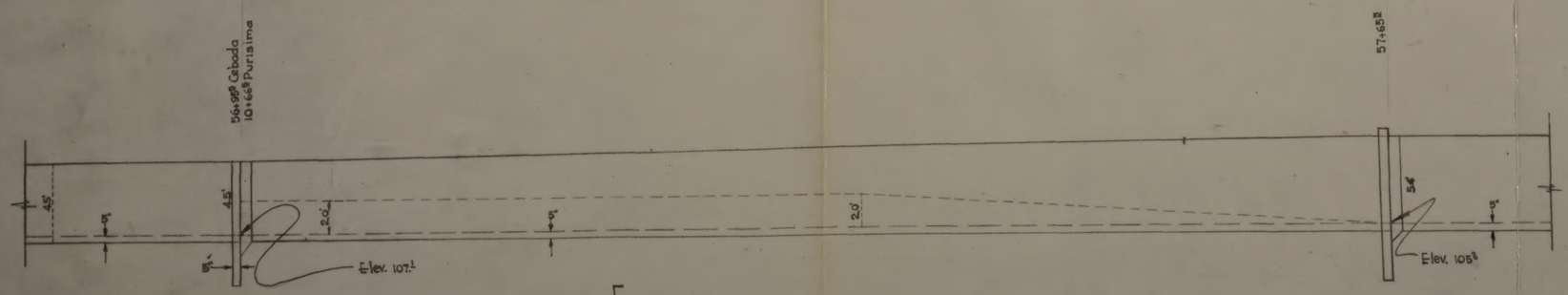
C-C



D-D
Station 57+65[2]



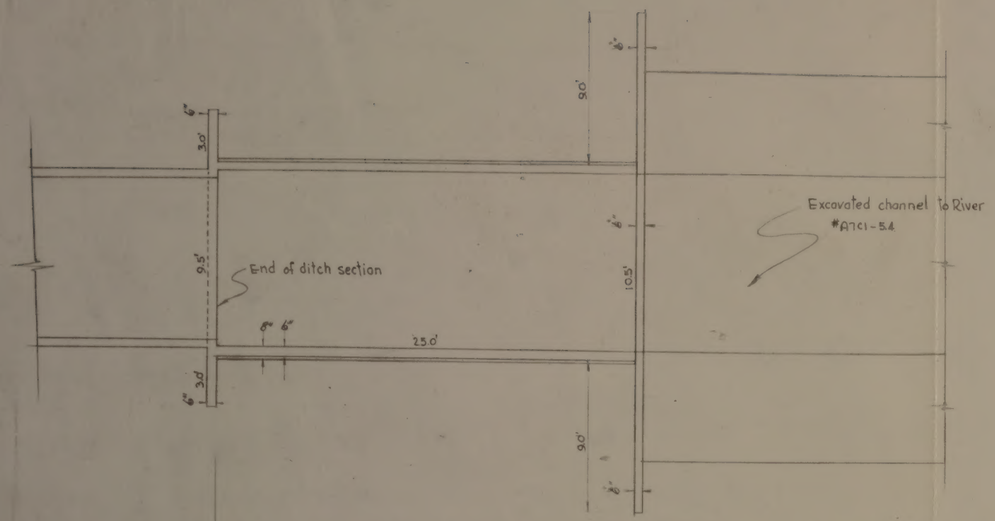
PLAN



ELEVATION

Scale: 1"=8.0

REGION 7				
JUNCTION DETAILS Cebada-Purisima Channels Structure "A1C1-E1				
U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE H. H. BENNETT, Chief				
RECOMMENDED: C.C.R. ENGINEERING APPROVAL: TITLE				
COMPILED	TRACED	CHECKED	DATE	DRAWING NO.
C.C.R.	D.L.W.		4-1-47	7-Sd-10792

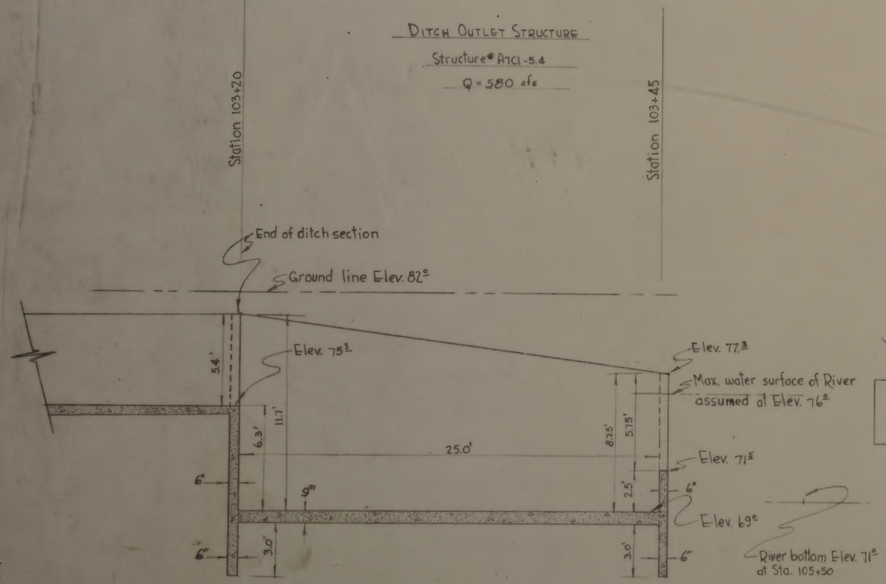


PLAN

DITCH OUTLET STRUCTURE

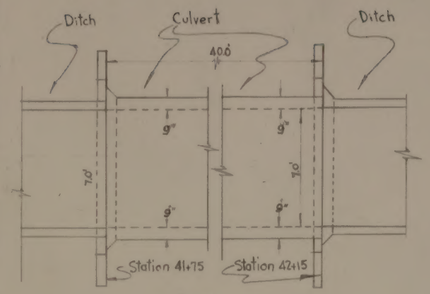
Structure #A7C1-5.4

Q = 580 cfs



℄ SECTION

SCALE: 1" = 4.0'



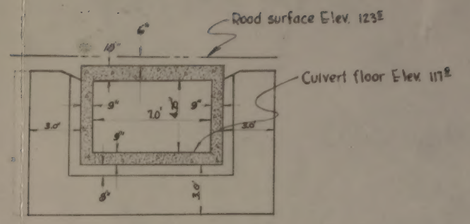
PLAN

CULVERT

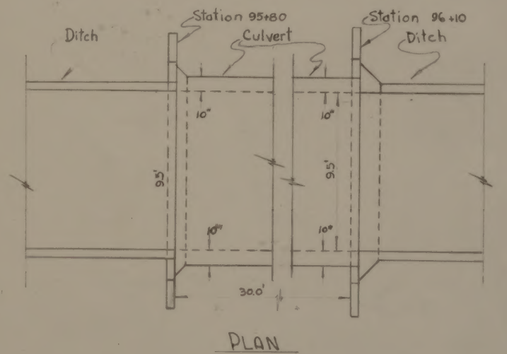
Structure #A7C1-3.4

SCALE: 1" = 4.0'

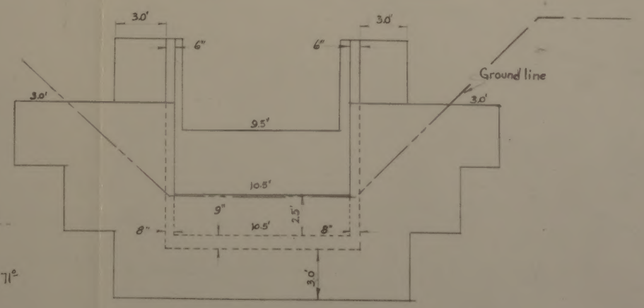
Q = 350 cfs



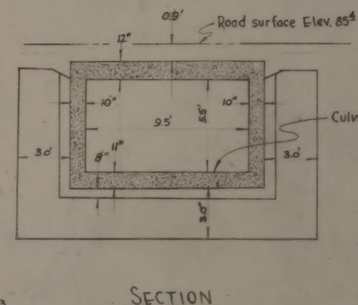
SECTION



PLAN



ELEVATION



CULVERT

Structure # A7C1-5.3

SCALE: 1" = 8.0'

Q = 580 cfs

SECTION

REGION 7

STRUCTURAL DETAILS

STRUCTURES #A7C1-3.4, #A7C1-5.3, #A7C1-5.4

U. S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

H. H. BENNETT, Chief

RECOMMENDED C.C. Rost

ENGINEERING APPROVAL

REGIONAL ENGINEER

COMPILED:	TRACED	CHECKED	DATE	DRAWING NO.
CCR	DLW		4-1-47	